

Claims

- [c1] WHAT IS CLAIMED IS:
1. A storage shelf for articles, the storage shelf comprising shelf planes divided into shelf compartments extending in a direction of depth of the storage shelf, wherein the articles are stored within the shelf planes adjacent to one another as well as sequentially behind one another in the direction of depth of the storage shelf, wherein the shelf compartments have several depth positions comprising a frontmost position, at least one middle depth position arranged behind the frontmost position, and a rearmost depth position in the direction of depth of the storage shelf, respectively, wherein an operating device correlated with the storage shelf is configured to access the frontmost position and the at least one middle depth position arranged behind the frontmost position in order to place or remove the articles but the operating device cannot access the rearmost position, wherein the shelf compartments comprise a stationary support (1) for the articles and a moveable carriage (2) for the articles, wherein the carriage (2) is movable between a forward position and a rearward position by a stroke length matching a length of the depth positions, respectively, wherein the carriage (2) in the rearward position stores the articles in the rearmost depth position.
- [c2] 2. The storage shelf according to claim 1, wherein the carriage (2) is shorter by one of the depth positions than the shelf compartment.
- [c3] 3. The storage shelf according to claim 1, wherein the shelf compartment comprises three of the depth positions (A, B, C) and wherein the carriage (2) extends across two of the depth positions (B, C).
- [c4] 4. The storage shelf according to claim 1, wherein the carriage (2) has an upwardly extending projection (12) projecting past a support surface (14) of the carriage (2), wherein the projection (12) is configured to provide a support action in a longitudinal direction of the carriage (2) for the articles located in a frontmost position on the carriage (2).
- [c5] 5. The storage shelf according to claim 4, wherein the support surface (14) of the carriage (2) is located higher than a support surface of the stationary

support (1).

- [c6] 6. The storage shelf according to claim 1, wherein the carriage (2) has cutouts (4, 5) extending in a longitudinal direction of the carriage (2) and being open toward a loading side of the storage shelf for allowing a free vertical penetration of a lifting fork (3) of the operating device.
- [c7] 7. The storage shelf according to claim 1, wherein the operating device has a lifting fork (3) having free ends provided with an upwardly extending projection (13), respectively, configured for a partial engagement from behind of the articles positioned on the lifting fork (3).
- [c8] 8. The storage shelf according to claim 1, wherein the carriage (2) is provided with means for increasing a pushing resistance between an upper surface (14) of the carriage (2) and a bottom side of the articles and wherein the pushing resistance is greater than a moving resistance of the carriage (2). *✓7*
- [c9] 9. The storage shelf according to claim 8, wherein the carriage (2) comprises rollers and is movable on the rollers in the shelf compartment. *✓8*
- [c10] 10. The storage shelf according to claim 9, wherein the carriage (2) has at least one means for increasing the moving resistance in the forward position and wherein the moving resistance in the forward position is smaller than the pushing resistance between the upper surface (14) of the carriage (2) and the bottom side of the articles. *✓9*